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Patent claims

1. The apparatus for stimulating the physiological 5 the processes of living organisms in form of a rectangular prism, containing between the bottom and the upper plane a clear area enabling the emission of electromagnetic and thermal waves, with coils fitted 10 the bottom, between two fabrics enabling permeation of heat radiation, characterized by its optional spatial form, limited by two parallel or nearly parallel planes, comprising a number of identical supports (1)with height and an 15 optional shape, permanently connected with the upper plane of the apparatus, this comprising a thinly woven material (2), lined from above with an insulating thermal material (3), whereas the insulating thermal material (3) has freely spaced and optionally shaped 20 openings in which there are installed light wave emitters (5) that emit light waves with a length ranging from 380 nm to 630 nm, frequency from 0.5 MHz to 100 MHz and power of up to 100 mW, while the in their lower part have installed supports (1) 25 electromagnetic wave emitters (4), selected in such a way so that at the level of the upper plane of the apparatus, slightly above the thinly woven material or at the level thereof, at each and every point of the upper plane of the apparatus - in accordance with the 30 invention - it is possible to obtain any value of electromagnetic induction within the range 0.001 μT with a frequency of 20 Hz to simultaneously emitting a specific quantity of heat,

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whereas the equipment is powered by an alternating current with a voltage that is safe for living organisms, ranging from 6 to 24 V, and is connected to the control system of the apparatus, containing a generator of the frequencies of emitted light waves.

- 2. The apparatus, pursuant to patent claim no. 1, characterized by the fact that the electromagnetic wave emitters ($\underline{4}$) emit waves with an electromagnetic induction within the range of 0.01 μT to 5.00 μT and with a frequency ranging from 40 Hz to 60 Hz.
- 3. The apparatus, pursuant to patent claim no. 1, characterized by the fact that the thinly woven material (2) is a mesh made from fibre glass or any other material inhibiting the development of bacteria.
- 4. The apparatus, pursuant to patent claim no. 1, characterized by the fact that the insulating thermal 20 material (3) is elastic and has fungicidal and bactericidal properties.
 - 5. The apparatus, pursuant to patent claim no. 1, characterized by the fact that the freely spaced openings in the insulating thermal material (3) have the shape of elongated slits or circles and/or ellipsoids with differing or identical diameters, or form slits around honeycombed regular polygons.
- 30 6.The apparatus, pursuant to patent claims nos. 1 and 5, characterized by the fact that the light wave emitters (5) emit light waves with a frequency ranging from

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- 0.8 MHz to 1.2 MHz and are located in series or in quads, in freely selected quantities.
- 7. The apparatus, pursuant to patent claims nos. 1 and 6, characterized by the fact that the number of light wave emitters (5) totals between 1 and 8.
 - 8. The apparatus, pursuant to patent claims nos. 1, 6 and 7, characterized by the fact that the light wave emitters are situated at 2/3 of the length of the apparatus or in the central part of the upper open plane of the apparatus.

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- 9. The apparatus, pursuant to patent claims nos. 1 and 6,
 15 characterized by the fact that the light wave emitters (5) are diodes with a power of 20 mW to 50 mW.
- 10. The apparatus, pursuant to patent claim no. 1,
 20 characterized by the fact that it has the shape of
 belts, compresses or other, attached to individual
 parts of the human body or as the lining of other
 objects used to sit or lie on.
- 25 11. The apparatus, pursuant to patent claim no. 1, characterized by the fact that it constitutes a mattress, the bottom of which is permanently connected with the side walls, whereas the bottom and interior parts of the side walls are lined with a leakproof non-permeable material, while the internal part of the mattress bottom or the area just above the bottom carries emitters of electromagnetic waves (4) and heat emitters, while the upper plane of

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the apparatus is a thinly woven material (2), lined from above with an insulating thermal material (3) that has freely spaced and optionally shaped openings, in which there are located light wave emitters (5), whereas the side walls of the apparatus have ventilation holes (6), opened and closed manually or automatically, and the clear area inside the apparatus is fitted - this between the bottom and thinly woven material - with a spring-based upholstery structure, with a clear area left around the upholstery springs.

- 12. The apparatus, pursuant to patent claims nos. 1 and 11, characterized by the fact that the electromagnetic wave emitters (4) are coils and/or groups of coils.
- 13. The apparatus, pursuant to patent claims nos. 11 and 12, characterized by the fact that the coils and/or groups of coils (4) are placed beneath/or between two fabrics or materials (8) enabling the permeation of heat radiation.

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